

H2020 – BES – 5 – 2015**Research Innovation Action**

Intelligent Portable Control System



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D7.6 Yearly communication report including communication material

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Abbreviations

| | |
|---------|--|
| ADDS | Automatic Deception Detection System |
| EES | Entry Exit System |
| ETIAS | European Travel Information and Authorisation System |
| FRONTEX | European Border and Coast Guard Agency |
| GDPR | General Data Protection Regulation |
| IJCNN | International Joint conference on Artificial Neural Networks |
| REA | Research Executive Agency |
| WCCI | World Congress on Computational Intelligence |

Executive Summary

The key purpose of the D7.6 Yearly communication report including communication material deliverable is to report on the iBorderCtrl dissemination activities conducted throughout the period M12-M24. The report covers the activities conducted online as well as through physical interaction or participation in relevant events. What is more, the reporting period of interest has been also a time of preparing and promoting iBorderCtrl pilots, which are supposed to demonstrate the entire system and engage real travellers. Dissemination activities of iBorderCtrl, in the period M12-M24, also required the preparation of scientific publications and promotional materials including new versions of the project poster and flyer.

1 Introduction

1.1 Purpose of this Document

This report covers the work conducted within T7.2, which is devoted to defining awareness raising plan focusing on various dissemination and communication channels.

The overall objectives of WP7 are to:

- develop the project communication infrastructure and material,
- safeguard the process of exploitation of results and to investigate the market exploitation potentials,
- guarantee the impact on European economy through the planning and management of exploitation and dissemination and follow-on activities,
- ensure wide communication of the projects' results to all potential interested parties and the widest audience during the project lifecycle.

The hereby report is a summary of all dissemination activities carried out throughout M12-M24. The report also comprises a set of dissemination materials that have been produced during the reporting period including project related publications.

1.2 Structure of the Document

The structure of the document is as follows:

- **Section 2** describes iBorderCtrl online presence. This section covers the project presence on LinkedIn, Twitter as well as iBorderCtrl website activity.
- **Section 3** summarizes the iBorderCtrl meeting and events throughout the reporting period.
- **Section 4** reports on the clustering activities with other EU funded projects that were conducted during M12-M24.
- **Section 5** presents iBorderCtrl promotional activities related to project pilots including recruitment strategy, media campaign and visual materials.

2 Online presence

The section shall include brief descriptions of activities done in M12-M24 and overall statistics to the sections below.

2.1 Website

The project website is available at <http://www.iborderctrl.eu>. The website was created in M2 of the project and has been featuring new content on regular basis. A screenshot of the first page of the project website is presented in **Error! Reference source not found.** below.

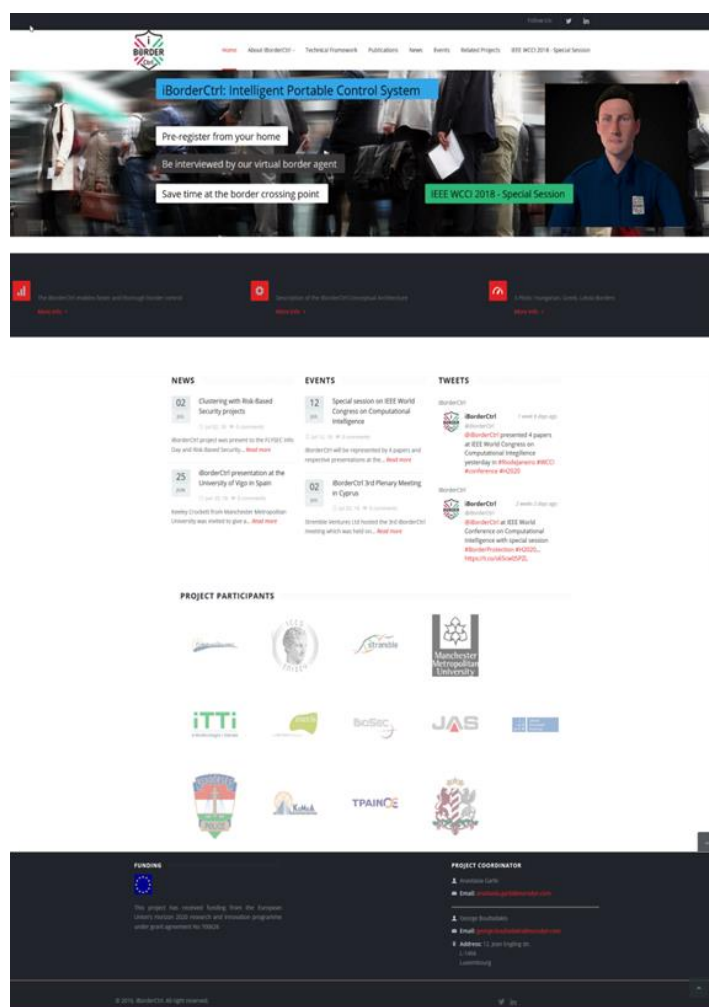


Figure 1 First page of the iBORDER Ctrl website

Especially the “News” (<https://www.iborderctrl.eu/project-news>), “Events” (<https://www.iborderctrl.eu/events>) and “Publications” (<https://www.iborderctrl.eu/Publications>) sections are continuously updated with new content in order to be kept up to date with the project progress. More specifically the Publication section displays information on the project’s submitted deliverables, a list of iBORDER Ctrl related Articles and Publications in Conferences and Journals and another list regarding the iBORDER Ctrl Appearance and respective presentations in various exhibitions and events.

The iBorderCtrl website was used as a mean to disseminate the 2018 IEEE World Congress on Computational Intelligence Special Session: “The Role of Computational Intelligence Technologies in Controlling Borders” organised by the iBorderCtrl consortium which was held on 8-13 July 2018 on Rio de Janeiro, Brazil and also to facilitate the paper submission process as it is presented in the screenshot in Figure 2 (<https://www.iborderctrl.eu/IEEE-WCCI2018-SS-CI-in-Controlling-Borders>).

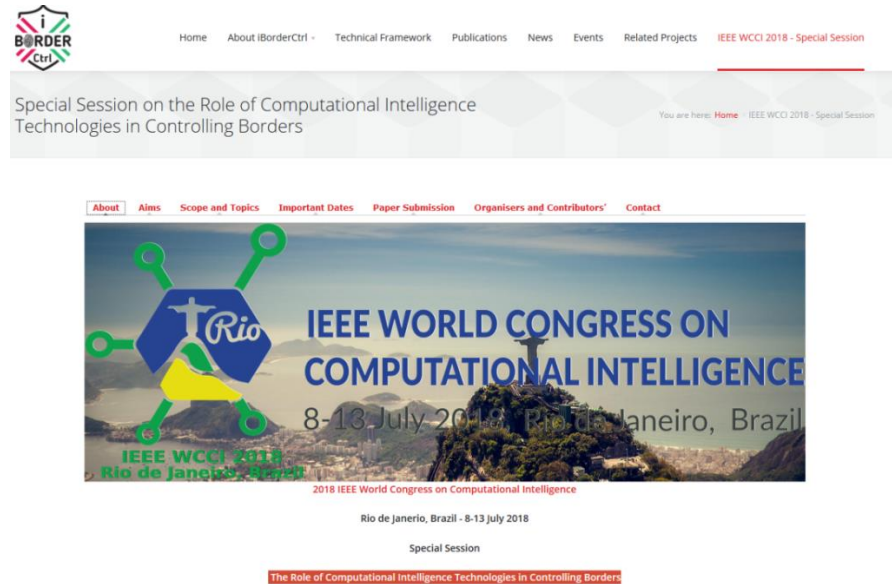


Figure 2 Special Session page of the iBorderCtrl website

The diagram in Figure 3 below depicts the number of unique visitors at the iBorderCtrl website for the period between M1 and M24 of the project. The observed drop during April 2017 is due to the trademark issue and change of the project's name and website. Of great importance is the fact that the iBorderCtrl website has a total of 38387 unique visitors until M24 which is a very impressive number. The iBorderCtrl website enhances the visibility of the project, the dissemination of its results and outcomes.

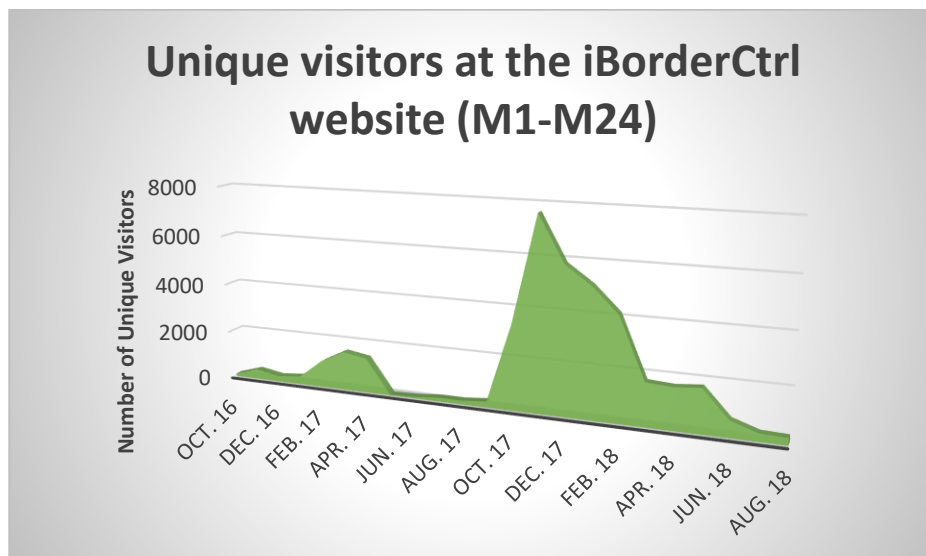


Figure 3 iBorderCtrl website visits per month (M1-M24)

2.2 Social media

2.2.1 LinkedIn

iBorderCtrl has a closed discussion group set up on LinkedIn portal. The discussion group features news and updates related to the project and border security. The number of group members has been steadily increasing and currently includes 33 members. The latest updates that appeared on the group's wall have been related to the WCCI conference (see Figure 4), where iBorderCtrl consortium presented several papers. Other news covered the clustering activities with risk-based security projects at FLYSEC Info Day.

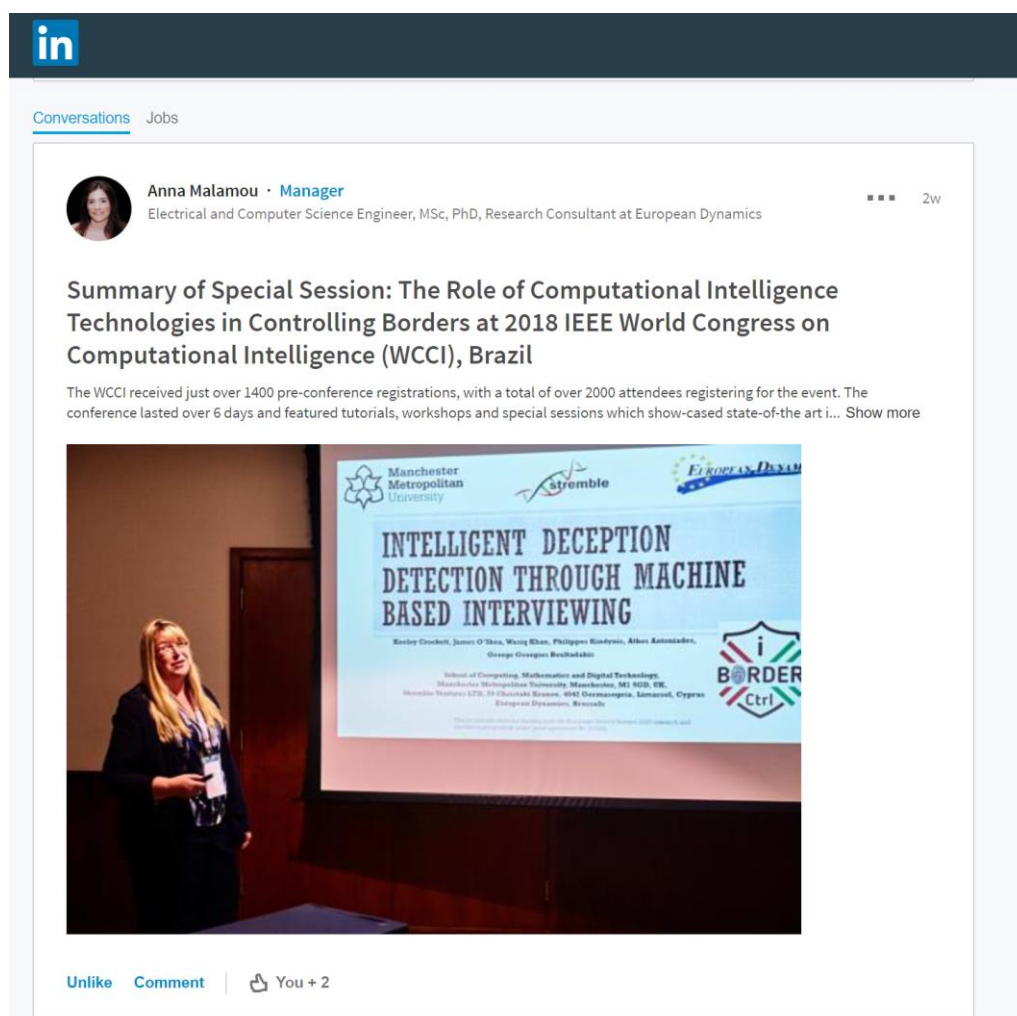


Figure 4 iBorderCtrl LinkedIn group screenshot

2.2.2 Twitter

Apart from the LinkedIn profile, the iBorderCtrl project is also visible at Twitter. The twitter account features short news about the project related activities. It also provides short notifications about the upcoming events where iBorderCtrl project is going to be presented. Currently, there are 32 tweets released totally and the profile attracted the attention of 57 followers. Throughout M12-M24, a steady increase in the number of followers and twitter impressions has been registered. Considering

upcoming promotional activities related to the project pilots, the trend is likely to continue. A screenshot of the iBORDERCtrl twitter profile is presented in Figure 5.



Figure 5 iBORDERCtrl Twitter screenshot

3 Meetings and events

3.1.1 Project Plenary Meetings

The section shall present a report on project plenary meetings that took place in M12-M24.

| Project physical meetings during this period | | | | |
|--|--------------------|-------------------------|--------------|--|
| Place | Dates | Type | Participants | |
| LUH premises "Conti-Campus", Hanover, Germany | 24-25 January 2018 | Plenary Meeting | ALL | |
| European Dynamics Belgium premises (26 th) and REA premises (Research Executive Agency) (27 th), Brussels, Belgium | 26-27 April 2018 | Official review meeting | ALL | |
| Stremble Ventures Ltd premises "Conti-Campus", Limassol, Cyprus | 27-28 June 2018 | Plenary Meeting | ALL | |

3.1.2 External Events, Workshops, Info Days, Exhibitions

This section presents a comprehensive list of all events, workshops, conferences that iBorderCtrl was presented at during M1-M24 of the project. The communication and dissemination activities that took place during the second year of the project (M12-M24) are presented in the grey rows of the table below:

Table 1 List of communication and dissemination iBorderCtrl activities

| List of communication and dissemination activities | Number of activities |
|---|----------------------|
| On 14th December 2016, an iBorderCtrl end-user workshop on new intelligent portable control systems for land border checks was held with the participation of the Hungarian project team and external experts from law enforcement, private security sector, research and academia. | 1 |
| iBorderCtrl Dissemination as part of STEM Outreach Activities 1) 5th December 2016, iBorderCtrl presentation of the aims and core of objectives of the projects to a wide and varied audience at the event Fun Tech Jobs - A series of short talks on Engineering and Computer Science, designed to Inspire, Educate and Engage! The overview of the traveller's pre-registration system was well received and was followed by a discussion of the ethical and social use of artificial intelligence to detect deception. The event was sponsored by the School of Computing, Mathematics & Digital Technology | 2 |

| | |
|---|---|
| at Manchester Metropolitan University, IEEE Women in Engineering United Kingdom and Ireland, and IEEE Women in Computational Intelligence. | |
| 2)15th December 2016, short talk on Artificial Intelligence, Artificial Neural Networks and the iBorderCtrl application to pupils aged 11 – 14 at Levensulme Girls High School in Manchester (United Kingdom). The pupils asked many questions about how the iBorderCtrl Pre-Travellers system would work, especially for Schengen and Non-Schengen countries. The majority had experienced European travel and they felt that anything to speed things up at borders would be very good. | |
| Featured Article about iBorderCtrl: "Avatar interviews and portable scanners to speed up border crossings" in the EU Research & Innovation Magazine (8 th of February 2017). https://horizon-magazine.eu/article/avatar-interviews-and-portable-scanners-speed-border-crossings_en.html | 1 |
| Presentation of iBorderCtrl at the FRONTEX Workshop on EU funded border security research projects, 8th June 2017. The presentation was made by the Coordinator. | 1 |
| Crockett (MMU) gave a key note talk entitled "Automated Deception Detection for EU Borders" at the British Academy / Goldsmiths Sponsored Event at Manchester Metropolitan University on 31 st March 2017. Details: https://www.eventbrite.co.uk/e/how-to-be-a-successful-researcher-in-the-21st-century-tickets-32582004653# | 1 |
| The iBorderCtrl project was presented in detail in a Special Session dedicated on the iBorderCtrl at the "4th edition of the EAB Research Projects Conference", 18-19 September 2017, Fraunhofer IGD, Darmstadt, Germany in the framework of EAB (European Association on Biometrics) activities. The presentation was made by the Coordinator and the Technical Manager. | 1 |
| iBorderCtrl Dissemination as part of STEM Outreach Activities: IEEE Day for United Kingdom and Ireland Talks, Profiling Women in Engineering, STEM event, 7 th October 2017 at the University of Westminster, Crockett (MMU) presented iBorderCtrl on Panel session AI and Ethics. | 1 |
| Crockett (MMU) gave invited talk on Women in Engineering and showcased iBorderCtrl project at the IEEE Workshop on IoT, Liverpool, 17th October 2017 | 1 |
| Presentation of iBorderCtrl at the "Borders, Eastern Conference and Border Protection Fair" 25-26 October 2017, Lublin, Poland. | 1 |
| iBorderCtrl was presented at the World Border Security Congress on the 20th-22nd of March 2018, Madrid, Spain. | 1 |
| Presentation of the silent talker and related Artificial Intelligence Psychological Profiling at the Trailblazing Technology Conference: The Future Impact of AI and Tech on Manchester, 23rd March 2018, organised by pro-manchester business development organisation. | 1 |

| | |
|--|---|
| Event disseminating iBorderCtrl to various Directorates and divisions of Hellenic Police (2/4/2018) | 1 |
| Industry day - Biometric on Move held on 25th of April 2018. The event was organised by Frontex. The aim of this event was to present products/services to an audience consisting of representatives of Frontex. | 1 |
| Research talk “Physiological Profiling with Artificial intelligence” with focus on the iBorderCtrl project at the University of Vigo, Spain on the 14th of June 2018. | 1 |
| Participation and presentation of iBorderCtrl to the FLYSEC Info Day and Risk-Based Security Projects Cluster Meeting, in Brussels on the 28th of June 2018. Details: http://www.fly-sec.eu/agenda.html | 1 |
| Participation and presentation of four iBorderCtrl related papers to the 2018 IEEE World Congress on Computational Intelligence, Special session: The Role of Computational Intelligence Technologies in Controlling Borders, Rio de Janeiro, Brazil, 8-13.07.2018 | 4 |
| Participation and presentation of one iBorderCtrl related paper to the 2018 IEEE International Joint conference on Artificial Neural Networks (IJCNN), Rio de Janeiro, Brazil, 8-13.07.2018. | 1 |

3.1.2.1 Special Session at IEEE WCCI

The main dissemination activity in this period was the iBorderCtrl special session entitled “The Role of Computational Intelligence Technologies in Controlling Borders”, held at the 2018 IEEE World Congress on Computational Intelligence in Brazil from the 8th to the 13th July 2019. The conference received just over 1400 pre-conference registrations, with a total of over 2000 attendees registering for the event. The conference lasted over 6 days and featured tutorials, workshops and special sessions which show-cased state-of-the art in computational intelligence technologies and applications and also allowed for a debate on the ethical, legal and social implications of using these technologies. The audience was both industry, academia and also there was a public lecture.

Within the iBorderCtrl special session, the audience were very interested in the latest face matching technology and the automated deception detection system and raised questions relating to false positives / false negatives and algorithm bias. There were also questions relating to the iBorderCtrl system as a whole and how risk would be calculated for a given Traveller on a given trip. The consortium members emphasized that that legal and ethical implications of the system had been and will continue to be reviewed and considered and that iBorderCtrl system was there to assist the border guards but ultimately, it was they who made the decision. The debate continued after the special session had finished and the audience were keen to find out more about the project.

The three presented papers were

- Stoklas, J. Krugel, T. Schutze, R. (2018). Legal, ethical and social impact on the use of computational intelligence based systems for land border crossings, In Proceedings of IEEE International Joint conference on Artificial Neural Networks (IJCNN), July 2018, in press.

- O'Shea, J. Crockett, K. Khan, Kindynis, P. Antoniadis, A. Intelligent Deception Detection through Machine Based Interviewing, *In Proceedings of IEEE International Joint conference on Artificial Neural Networks (IJCNN)*, July 2018, *in press*.
- Rodriguez, L. Hupoint, I. 2018. Facial Recognition Application For Border Control, *In Proceedings of IEEE International Joint conference on Artificial Neural Networks (IJCNN)*, July 2018, *in press*.

Figure 6 shows the three consortium members in action.



Figure 6 Presentations at WCCI 2018 by Consortium Members

Also within the WCCI conference, Keeley Crockett presented an additional paper in the IEEE Workshop on the Social and ethical implications of Computational Intelligence which used iBorderCtrl, ADDS subsystems as an example of profiling and the challenges faced in providing an explainable decision to stakeholders.

- Crockett, K. Goltz, S. Garratt, M. GDPR Impact on Computational Intelligence Research, Author(s): IEEE International Joint conference on Artificial Neural Networks (IJCNN), July 2018, *in press*.

The workshop was attended by 40 people and was hosted on the last day of the conference. Consortium member, Jonathan Stoklas was a very active member of the workshop and was able to provide expertise on GDPR from the legal perspective of profiling to an audience full of technical people. This workshop demonstrated a significant interest and discussion in the iBorderCtrl pre-registration system.

3.1.2.2 Invited Research Talk at the University of Vigo, Spain

Keeley Crockett was invited to give a research talk “Physiological Profiling with Artificial intelligence” at the University of Vigo, Spain, 14th June 2018. This presentation focused on the both the research behind Silent Talker (the main component of the Automated Deception Detection Tool within the Traveller User Interface) and the presentation of the novelty of iBorderCtrl and how the system would be used in practice. The photo shows Professor Carmen García Mateo from the Atlantic Research Center for Information and Communication Technologies at the University of Vigo who fully funded the visit.

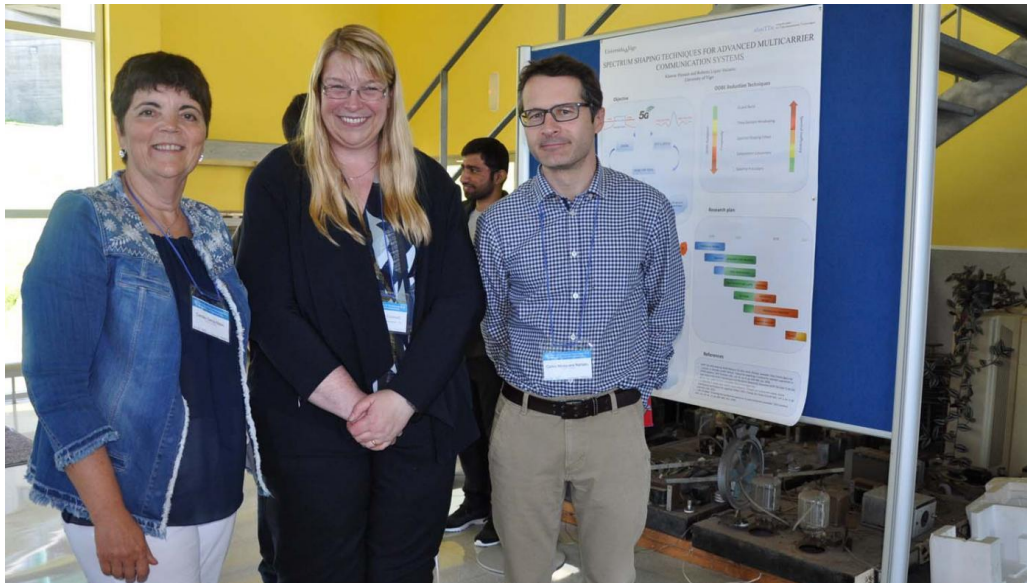


Figure 7 Invited Talk University of Vigo, Spain

3.1.2.3 Other Dissemination Activities to the scientific community

Keeley Crockett gave a presentation on current research activities which included the iBorderCtrl project on Thursday 21st May to the [Industrial Liaison Board](https://www2.mmu.ac.uk/scmdt/working-with-us/industrial-advisory-board/) at Manchester Metropolitan University. The board comprises of companies such as Siemens, IBM, British Telecom, and IBM – a full list can be found here <https://www2.mmu.ac.uk/scmdt/working-with-us/industrial-advisory-board/>. There was particular interest in ADDS and how the technology could be applied in other areas.

3.2 Publications

Throughout the reporting period (M12-M24), the iBorderCtrl consortium has produced a number of publicly available materials either as public project deliverables or publications in journals and magazines. Both public deliverables and publications are presented in sections below.

3.2.1 Project Deliverables

The following project deliverables were produced in the reporting period and are available to the public:

1. D3.1 Data Collection Devices – specifications (M16)
2. D3.2 First version of all technological tools and subsystems (M18)
3. D3.3 Second version of all technological tools and subsystems for integration (M24)
4. D4.1 First version of the iBorderCtrl software platform (M18)
5. D4.2 Second version of the iBorderCtrl s/w platform (M24)
6. D7.6 Yearly communication report including communication materials (M24)
7. D7.7 Project Flyer (M20)
8. D7.8 Dissemination and communication plan (M24)

3.2.2 Project Publications

Grey rows represent the new publications, accepted/published during the reporting period.

Table 2 iBorderCtrl publications

| Type of publication (journal/conference proceedings/workshops/monograph/dissertation/ etc. | Authors, Title, Publisher, Place of publication, Volume/Number of issue, date, Relevant pages, ISSN or eSSN. |
|--|---|
| (Online)-Journal | J. Stoklas, "Europäischer Grenzschutz 2.0 – Ein Überblick über datenschutzrechtliche Herausforderungen", ZD-Aktuell, Beck, Munich, Heft 21, 16.12.2016, (2016, 05418), 2192-5593. |
| Scientific Conference | C. I. Kourogorgas, A. D. Panagopoulos, R. Makri, "A Copulas-Based Time Series Synthesizer for Mobile Satellite Communications Operating Above 10 GHz", 11 th European Conference on Antennas and Propagation 2017 (EuCAP Conference), Paris, France, 19-24 March 2017. https://doi.org/10.23919/EuCAP.2017.7928349 |
| Scientific Conference | Sz. Zoltán, "The Intelligent Border Control System and the future of Integrated Security Management in Public-Private Cooperation", Tourism and Security, in Nagykanizsa, Hungary, 2016. |
| Journal | K. Crockett, J. O'Shea, Sz. Zoltán, Ł. Szklarski, A. Malamou, G. Bouladakis, "Do Europe's borders need multi-faced biometric protection?", Biometrics Technology Today journal, Elsevier, Volume 2017, Issue 7, July–August 2017, Pages 5-8. |
| (Online)-Journal | J. Stoklas, "Sicherheit im Schengen-Raum: Eine unendliche Datensammelei?", ZD-Aktuell, Beck, Munich, Heft 12, 28.06.2017 (2017, 05684), 2192-5593. |
| Scientific Conference | Sz. Zoltán, "BorderCtrl and BBA242: Examples for research and innovation in border security at European and national level", 2017 CEPOL Research and Science Conference 'Innovations in Law Enforcement', Budapest, 28-30.11.2017. |
| Scientific Conference | P. Bilski, J. Modelski, B. Kosciug, J. Olejnic, I. Badaczewska, A. Malamou, R. Makri, "Application of the RFID technology in the European Union border control system", International Conference on RFID Technology and Applications, Warsaw, Poland, September 20-22, 2017. |
| Evidence for Government Policy Formation | O'Shea, J. "Dr James O'Shea - written evidence" (to the UK House of Lords Artificial Intelligence Select committee), AIC0226, published 26 October 2017, http://www.parliament.uk/business/committees/committees-a-z/lords-select/ai-committee/publications/ |
| Scientific Conference | T. Kruegel, B. Schuetze and J. Stoklas, "Legal, ethical and social impact on the use of computational intelligence based systems", 2018 IEEE World Congress on Computational Intelligence, Special session: The Role of Computational Intelligence Technologies in Controlling Borders, Rio de Janeiro, Brazil, 8-13.07.2018. |

| | |
|-----------------------|---|
| Scientific Conference | L. Rodriguez Carlos Roca, I. Hupont Torres and C. Fernandez Tena, "Facial recognition application for Border Control", 2018 IEEE World Congress on Computational Intelligence, Special session: The Role of Computational Intelligence Technologies in Controlling Borders, Rio de Janeiro, Brazil, 8-13.07.2018. |
| Scientific Conference | J. O'Shea, K. Crockett, W. Khan, P. Kindynis, A. Antoniadis and G. Bouladakis, "Intelligent Deception Detection through Machine Based Interviewing", 2018 IEEE World Congress on Computational Intelligence, Special session: The Role of Computational Intelligence Technologies in Controlling Borders, Rio de Janeiro, Brazil, 8-13.07.2018. |
| Scientific Conference | J. O'Shea, K. Crockett, W. Khan and Z. Bandar, "A hybrid model combining neural networks and decision tree for comprehension detection", 2018 IEEE World Congress on Computational Intelligence, Special session: The Role of Computational Intelligence Technologies in Controlling Borders, Rio de Janeiro, Brazil, 8-13.07.2018. |
| Scientific Conference | K. Crockett, S. Goltz, M. Garratt, "GDPR Impact on Computational Intelligence Research", IEEE International Joint conference on Artificial Neural Networks (IJCNN), Rio de Janeiro, Brazil, 8-13.07.2018. |

3.2.3 Policy Papers

iBorderCtrl was actively working in the field of policy making and papers in the reporting period. As outlined in D7.3, policy makers basically consist of three groups: Policy makers, which are directly involved in policy making, actors that are active in the field of border controls while being connected to the aforementioned decision-making bodies, and the public. The European legislator has been quite active in the past months, enacting and preparing new legislation such as:

- Regulation (EU) 2017/2225 of the European Parliament and of the Council of 30 November 2017 amending Regulation (EU) 2016/399 as regards the use of the Entry/Exit System
- Regulation (EU) 2017/2226 of the European Parliament and of the Council of 30 November 2017 establishing an Entry/Exit System (EES) to register entry and exit data and refusal of entry data of third-country nationals crossing the external borders of the Member States and determining the conditions for access to the EES for law enforcement purposes, and amending the Convention implementing the Schengen Agreement and Regulations (EC) No 767/2008 and (EU) No 1077/2011
- Proposal for a regulation of the European parliament and of the Council establishing a European Travel Information and Authorisation System (ETIAS) and amending Regulations (EU) No 515/2014, (EU) 2016/399, (EU) 2016/794 and (EU) 2016/1624 COM/2016/0731 final - 2016/0357 (COD)
- Proposal for a regulation of the European parliament and of the Council on establishing a framework for interoperability between EU information systems (police and judicial cooperation, asylum and migration), {SWD(2017) 473 final} - {SWD(2017) 474 final}

These developments also impact the development of the iBorderCtrl components, as certain aspects of these regulations reflect functionalities which are also foreseen to be implemented in the iBorderCtrl system. Although these are ongoing developments, iBorderCtrl has presented current technologies to policy makers during the review meeting in Brussels on 27 April 2018. The preliminary results of the project have been presented to a representative of FRONTEX, as well as to

a representative from the directorate working on the ETIAS proposal. On 28 June 2018, the project was presented to a representative of the European Union and International Police Cooperation Directorate (EUIPCD) of Cyprus in a joint meeting during the Plenary Meeting. In both meetings, the integration of iBorderCtrl in the existing legal framework, particularly in the light of the ongoing policy developments were extensively discussed.

As indicated in D7.3, concrete policy recommendations will be made towards the final stages of the project given the several reforms that are ongoing at the EU-level. These need to be monitored to identify possible gaps that are not yet covered by the legal framework, as well as discover the technological and other developments in this area which might require certain adjustments either on a legal or a technological level. As such, iBorderCtrl will continue its analysis of the status quo and future developments that might direct concrete policy recommendations once the final iBorderCtrl system is available.

3.2.4 Media Communication and Press Release

On the 12th of July 2018, the iBorderCtrl coordinator was contacted and informed that the European Commission has asked for an article on iBorderCtrl as a very successful project to be published on their DG Research website under “success stories”. The article will be ready by the end of August 2018 and will be accessible under the two links provided below:

<https://ec.europa.eu/programmes/horizon2020/en/newsroom/achievements/>

https://ec.europa.eu/research/infocentre/success_stories_en.cfm

It is an honour for all consortium members that iBorderCtrl was selected to be included in the European Commission success stories and that a featured article is going to be dedicated to iBorderCtrl. It is very important to communicate our project’s results to the public via the DG Research and Horizon 2020 sites. The aim of the article is to show that iBorderCtrl work is promoting excellent scientific research and is achieving good results.

The article is going to describe:

- a. the challenges identified during the research carried out in the framework of iBorderCtrl
- b. how iBorderCtrl addresses the above challenges and the innovations employed
- c. the key results and examples of iBorderCtrl system development and implementation and respective steps followed
- d. the social and economic benefits arising from the project
- e. the iBorderCtrl exploitation plan

Moreover in this section the featured Article about iBorderCtrl: "Avatar interviews and portable scanners to speed up border crossings" published in the EU Research & Innovation Magazine on the 8th of February 2017 should be also mentioned¹.

¹ https://horizon-magazine.eu/article/avatar-interviews-and-portable-scanners-speed-border-crossings_en.html

4 Clustering activities and attracting stakeholders

4.1.1 Presentation to Cyprus Interpol staff

A key presentation of the iBorderCtrl project took place during the project's plenary meeting held in Limassol, Cyprus at the end of June 2018. STR being the host of the Limassol plenary meeting, invited representatives from the **European Union and International Police Cooperation Directorate (EUIPCD)** at the respective Cyprus Office to join the plenary meeting and meet and discuss with the Consortium members. Mr. Giannos Charalampous head of Interpol Cyprus attended the meeting in order to be informed about the project and examine possible fields of future collaboration.

During the meeting, the Coordinator (ED) presented the iBorderCtrl project, emphasizing the foreseen impact and the association of the project towards current and foreseen EU initiatives (i.e. EES, ETIAS etc.). A detailed presentation took place afterwards from the Interpol side enhanced with videos of the Agency's activities and foreseen software systems' implementations for prevention and fraud detection. Mr. Giannos Charalampous presented **INTERPOL (the world largest International Police Organization)** and its objectives along with the tools and services provided to Law Enforcement Agencies across the world for the Prevention and Suppression of Crime. Emphasis was given to the FIND system database, the different kind of Interpol notices and the I-CheckIt system. Snapshots of the above presentation are given below:



During the extensive discussion that took place in the following, the iBorderCtrl consortium obtained the unique opportunity to exchange views with the invited INTERPOL staff and to highlight the similarities of the iBorderCtrl project with the foreseen EU interoperability initiatives and the envisioned features of the EES and ETIAS recommended platforms. Both parties identified common grounds on the scopes and objectives of their actions and explored and agreed on common initiatives in the future, especially connected with the iBorderCtrl piloting activities.

4.1.2 Clustering with other projects

The European Commission invited iBorderCtrl to demonstrate the iBorderCtrl applications and results on an EC-REA info session on Border Projects having REA and DG HOME Units/Agencies as an audience. This session was initially scheduled for the 21st of June 2018 but the European Commission had to cancel this event due to high-management expected visits. However, this info session is rescheduled for the 22nd – 23rd of November 2018.

In this info-session another project related to border control was invited to participate, namely the PROTECT project². PROTECT concept uses electronic machine-readable travel documents, kiosks and smartphones to deliver traveller biographic and biometric data to border agencies before arrival. Watchlist checks and risk analysis take place while the passengers are en route to the control. Eligible passengers pass by biometric sensors on the move and only stop if they are not recognized – or if they are suspects.

The aim of this info-session is to provide to selected REA Project Officers and managers and also to DG Home representatives an overview of the current situation and legal background of Integrated Border Management. Most importantly though, the goal is to demonstrate the relevance of H2020 projects working in this area with the Recent Commission Initiatives on interoperability and the envisaged European Travel Information and Authorisation System (ETIAS) and Entry-exit system (EES).

Both projects (iBorderCtrl and PROTECT) are going to provide complementary, interactive presentations with theme "Facilitating Schengen area border crossings for "bona fide" TCN and EU travellers" with presentations and walkthrough sessions as follows: iBorderCtrl is firstly going to present the Traveller User Application featuring the innovative traveller pre-registration step/procedure. Consequently PROTECT project is going to describe the proposed border crossing procedure at an airport while iBorderCtrl is going to demonstrate the envisaged border crossing procedure at land borders (traveller verification using a portable unit).

All the above are going to be presented as a mixture of presentations, video sequences, role playing and showing physical hardware devices. The role-playing involves e.g. for the land border vehicle case a number of audience members being on stage –mock up a set of seats as if a vehicle with driver and passengers, and show interactively the flow of the scenario. In addition, some (portable) equipment will be brought along to the meeting room that can be used as part of the role playing during the presentation and/or available on the side for the audience to come and see at the end of the meeting.

Detailed storyboards have been drafted to facilitate the presentations. These storyboards involve both iBorderCtrl and PROTECT projects and are complementary in order to demonstrate the strong points of each project.

This info session is going to be a good opportunity not only to further disseminate iBorderCtrl results but also to initiate a series of clustering activities with the PROTECT project.

² <http://projectprotect.eu/>

5 Pilots

5.1 Recruitment of volunteers (“travellers” and “registrants”)

For the purposes of recruitment of volunteers, the consortium will diversify means to attract interest of travellers. The recruitment will start prior to the testing period (during test Phase 0 as defined in D6.1) and will remain open for volunteers throughout the period of iBorderCtrl pilot testing. iBorderCtrl will enhance the efforts to engage a critical number of test users before and during the preparatory test phase 0.

As a starting point, travellers going through the BCPs will receive an iBorderCtrl leaflet that will be prepared in several languages including English, Hungarian and Russian (which have already been identified as the main user interface languages and throughout Avatar interview). The leaflet will comprise a short note on the project’s main innovations, as well as instructions on how to participate. The leaflet shall also contain a QR code referring the traveller to the project website, where more information can be obtained and a link to visit the web application or to download the mobile traveller application. The traveller will be able to register his/her trip in the TUA and be informed about the dates of the pilot tests in each pilot site and for each test phase.

Furthermore, other advertising material will be available in close vicinity to the border crossing point. The dissemination material will include a billboard poster (and/or advertising banner). The banner/billboard will comprise the iBorderCtrl logo and will encourage the individuals to participate in the project pilots.

What is more, essential aspect of volunteers’ recruitment will be through widespread activities on social media. These activities will cover the release of regular posts and tweets about the iBorderCtrl pilots. Such activities will be performed at the project’s social media profiles (i.e. Twitter and LinkedIn) as well as at the project website. Moreover, each consortium partner will promote the pilots via their organisation’s dissemination channels (e.g. Facebook, Website, LinkedIn, etc.) and its own contact network.

It should be noted here, that during test phase 0, the iBorderCtrl partners will exploit every opportunity for recruiting volunteers. For example, “registrants” will be also recruited by the participation of iBorderCtrl members in major events while, consortium members (i.e. ICCS, STR, MMU, HNP) who have access to Academia will focus on recruiting students and researchers to voluntarily become players within the iBorderCtrl. By this way, students and staff from the National Technical University of Athens, the University of Cyprus, the Manchester Metropolitan University and the Hungarian Police Academy will be informed and encouraged to use TUA and become “registrants” or “travellers”.

Furthermore, the **Manchester Science Festival on the 20th of October 2018** will be exploited as a large “pool” of actors to be involved in the project; this large event to be held in Manchester attracts a minimum participation of 2000 people and this would be fully exploited by the iBorderCtrl. Specific interactive and dissemination actions are planned within this specific event so that event participants will be encouraged to use TUA and become “registrants”.

5.2 Recruitment Campaign Plan

At this point the envisioned campaign plan to be implemented by the iBorderCtrl consortium for the recruitment of volunteers is provided in more detail. The aim is to show the main relevant actions that will be followed towards this goal, as these denote the basic principles of the overall campaign

concept. Of course, any such opportunity that will be emerged in the meantime and is not foreseen herein, it will be fully exploited as well.

The aim of the following presentation is to present the strategy for engaging a number of volunteers, especially “travellers” to participate in the iBorderCtrl pilots. The desired number of “travellers” participating in the pilot would be ~100 (total for all pilot sites and cumulatively for all pilot test Phases). In the sections below, the major respective actions are described along with the partners’ roles and responsibilities towards the different communication means; these are elaborated with detailed actions assigned to partners involved and with respective deadlines to meet the pilot phases scheduled time plan.

In general, it should be noted that all the (regular and social) media and advertisement campaigns will be jointly organized by the iBorderCtrl consortium, whereas the partner responsible for dissemination (ITTI) will be in charge of the planning and the end-user partners (HNP, BSG, TRA, KEM) will be the main execution team for an effective realization of this kind of campaign.

Summarising herein the various **Partners’ roles and responsibilities** as these are planned at the time being the following are foreseen:

ITTI – will act as the campaign leader, will be responsible for:

- Managing travellers recruitment campaign
- Producing dissemination materials, including: leaflet, banner, billboard projects, radio announcement text

HNP, BSG, TRA, KEM – being the iBorderCtrl end-users will:

- Have a strong supporting role to the whole attempt
- Be responsible for managing dissemination activities at the particular pilot sites
- Help with translating and printing dissemination materials installation of banners/billboards at pilot sites and the distribution of leaflets
- be responsible for the selection and recruitment of all key players for the conductance of the pilot testing: border guards, border managers and supervisors.

In the following, specific dissemination actions dedicated to facilitate the recruitment campaign are described.

In order to conduct effective dissemination/recruitment campaign, it is essential to prepare a set of visual materials that will attract travellers’ attention. For the pilot dissemination and volunteer recruitment campaign, consortium will use already available leaflet as well as materials prepared specifically for iBorderCtrl pilots. Among the materials that will be available for pilots dissemination, there will be:

A traveller leaflet: a short foldable leaflet that will be handed to travellers by border guards and consortium members at each pilot site. The leaflet will inform about the iBorderCtrl’s objectives, pilots, the benefit for the traveller as well as provide practical information related to the registration to iBorderCtrl pilots. The leaflet will also contain a QR code, which will refer a traveller to the iBorderCtrl website and a registration manual. The leaflet will be prepared in English, Russian and Hungarian.

First draft of the leaflet is presented below:

How does the iBORDER Ctrl Work?

Lorem ipsum dolor sit amet, has movet noluisse dissentias id, ex porro legere nusquam qui, copiosae inimicus nam ne. In reque antipam sea, id sumo tota dignissim has, qui an sint inductum. Ea mei doctus quaestio philosophia, ipsum gloriatur theophrastus no eam. Deleniti prodesset an vis.

Eu sit aliquip platonem. Mei no purto populo legendos, vix legere sententiae at. Deleniti utroque ad mei, in mucus melius vix, sit et nusquam nostrum efficiendi. Esse prodesset his et, mei ex autem justo pericula. Te est labitur postulant elaboraret. Vix eu labore oblique mediocrem, ridens malorum assueverit ei nam.

Ex brute nullam est, alii rebum eu mea, te accusam laboramus vis. Eam et urbanitas abhorreant, inani utamur reprimique ut mei, te nobis defniebas sea. Expetendis quaerendum conclusionemque ex eos. Qui modus cita utroque et.

Step 1 – Pre-registration in iBORDER Ctrl application

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Eu sit aliquip platonem. Mei no purto populo legendos, vix legere sententiae at. Deleniti utroque ad mei, in mucus melius vix, sit et nusquam nostrum efficiendi. Esse prodesset his et, mei ex autem justo pericula. Te est labitur postulant elaboraret. Vix eu labore oblique mediocrem, ridens malorum assueverit ei nam.

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Step 2 – At the Border Crossing Point

Lorem ipsum dolor sit amet, has movet noluisse dissentias id, ex porro legere nusquam qui, copiosae inimicus nam ne. In reque antipam sea, id sumo tota dignissim has, qui an sint inductum. Ea mei doctus quaestio philosophia, ipsum gloriatur theophrastus no eam. Deleniti prodesset an vis.

Eu sit aliquip platonem. Mei no purto populo legendos, vix legere sententiae at. Deleniti utroque ad mei, in mucus melius vix, sit et nusquam nostrum efficiendi. Esse prodesset his et, mei ex autem justo pericula. Te est labitur postulant elaboraret. Vix eu labore oblique mediocrem, ridens malorum assueverit ei nam.

Ex brute nullam est, alii rebum eu mea, te accusam laboramus vis. Eam et urbanitas abhorreant, inani utamur reprimique ut mei, te nobis defniebas sea. Expetendis quaerendum conclusionemque ex eos. Qui modus cita utroque et.





iBORDER Ctrl Project

iBORDER Ctrl (Intelligent Portable Control System) is an innovative project that aims to enable faster and thorough border control for third-country nationals crossing the land borders of EU Member States (MS), with technologies that adopt the future development of the Schengen Border Management. One element of this project is a pilot/test installation at Tompa road border gate at Hungarian-Serbian border for travellers. The pilot is open for all travellers above 18, who will register their travel in pre-registration system via iBORDER Ctrl application dedicated for Android mobile devices.

How to download the iBORDER Ctrl app?

www.iborderctrl.eu

Scan here to visit the iBORDER Ctrl website



Your participation in this pilot, which is of course voluntary, will help to improve future border-crossing of third country nationals and largely shorten the time spent at border crossing points. The pilot does not exempt from the obligation to carry travel documents required by national/European law and regulations.

Data Protection

Participation in iBORDER Ctrl pilot requires your explicit consent to the electronic identification and processing of the personal data and biometric features contained in the passport and any other documentation which may be presented in the context of this pilot. In addition to that your live facial picture and fingerprint will be captured. This consent will be requested from you directly during the registration via iBORDER Ctrl application. The collected data will be stored <to be defined> and exclusively used for the study of this intelligent border control. You may revoke your consent at any time and without any detrimental effects in writing, via email or in person. Upon completion of the project the stored personal data will be deleted.

Project coordinator:



Pilot Coordinator:

 Address 1
Contact person

Further Information
<https://www.iborderctrl.eu/>
<https://twitter.com/iBORDERCtrl>

Impressum
 Conventum design
 ITTI s.p.a.
 at 40138, 40132, 40131, 40130, 40129, 40128, 40127, 40126, 40125, 40124, 40123, 40122, 40121, 40120, 40119, 40118, 40117, 40116, 40115, 40114, 40113, 40112, 40111, 40110, 40109, 40108, 40107, 40106, 40105, 40104, 40103, 40102, 40101, 40100, 40099, 40098, 40097, 40096, 40095, 40094, 40093, 40092, 40091, 40090, 40089, 40088, 40087, 40086, 40085, 40084, 40083, 40082, 40081, 40080, 40079, 40078, 40077, 40076, 40075, 40074, 40073, 40072, 40071, 40070, 40069, 40068, 40067, 40066, 40065, 40064, 40063, 40062, 40061, 40060, 40059, 40058, 40057, 40056, 40055, 40054, 40053, 40052, 40051, 40050, 40049, 40048, 40047, 40046, 40045, 40044, 40043, 40042, 40041, 40040, 40039, 40038, 40037, 40036, 40035, 40034, 40033, 40032, 40031, 40030, 40029, 40028, 40027, 40026, 40025, 40024, 40023, 40022, 40021, 40020, 40019, 40018, 40017, 40016, 40015, 40014, 40013, 40012, 40011, 40010, 40009, 40008, 40007, 40006, 40005, 40004, 40003, 40002, 40001, 40000, 39999, 39998, 39997, 39996, 39995, 39994, 39993, 39992, 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As for the leaflet the following actions are envisaged:

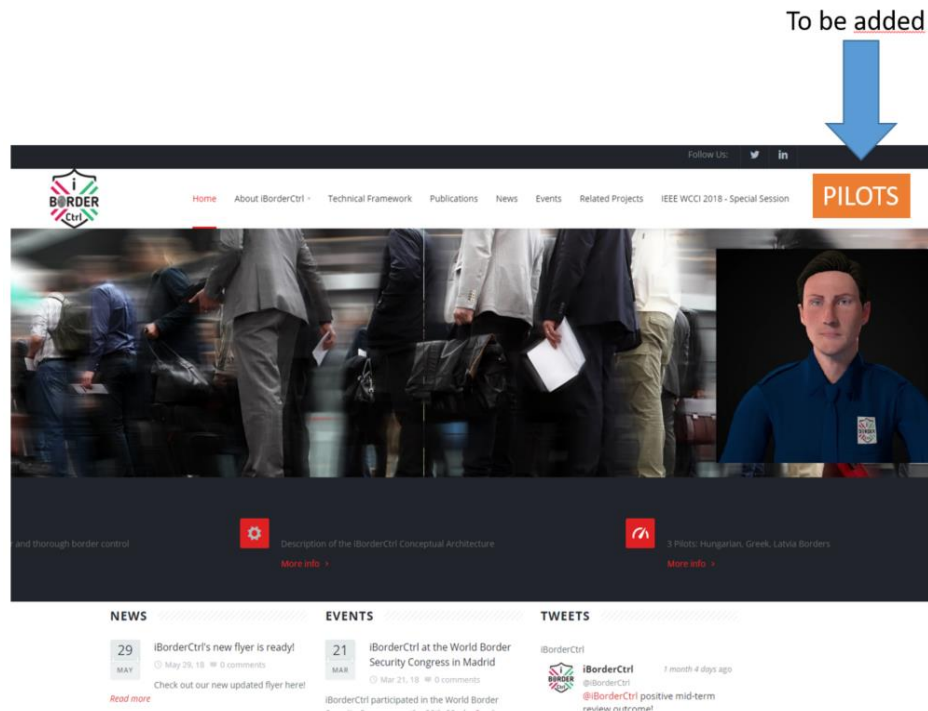
| Action | Commentary |
|---|---|
| Produce draft version of the leaflet (in English) | Done - to be reviewed by the Consortium |
| Provide border crossing process description to be included in the leaflet | About 400 words. This text should briefly inform travellers how they enrol to the pilot and what they should expect when arriving at the border (after successful enrolment). |
| Acceptance of the leaflet project layout | |
| Providing translations: English to Russian English to Hungarian | |
| Printing out 1000 copies per pilot site at local printing office | |
| Active leaflet dissemination during pilot phases | |

Banner / billboard: Depending on the available infrastructure at a particular pilot site either banner or billboard or both could be provided. As billboard signs (if available) are already in place, their location is fixed. Banners, however, should be placed in visible locations to facilitate the travellers. The exact placement will be decided by the local border guards taking part in the pilots.

As for the banner / billboard the following actions are envisaged:

| Action | Commentary |
|---|---|
| Provide ITTI information about available infrastructure | Please let us know whether you will be able to install billboard or banners |
| Check possibilities of billboard installation | Contact local company, which would install the billboard – check prices and available dates of installation, etc. |
| Provide information about banner / billboard dimensions | This is very important for graphic designers – without that they cannot start work on the draft |
| Produce draft version of the banner / billboard (in English) | |
| Acceptance of the banner / billboard project | |
| Providing translations: English to Russian English to Hungarian | |

Website: A specific web page will be inserted in visible area of the iBorderCtrl website and in the respective partners' web pages. An initial design is given below:



iBorderCtrl (www.iborderctrl.eu) website will feature news related to the pilots organisation and their conduct. Currently, the website already has information on the Traveller User Application and how to operate it. Potential volunteers will have access to a dedicated manual, which comprises information on registration, rules of pilot participation and data collection/processing. The manual is available under (<https://www.iborderctrl.eu/tua/#/main-container/welcome>). The link to the Traveller User Application will be also incorporated into the iBorderCtrl leaflet, banner and other promotional materials. Furthermore, the website will feature regular updates from the pilot sites reporting on the travellers' feedback, numbers of registered volunteers as well as system performance.

Apart from the project website, consortium members will disseminate the news on the pilots via their own online communication channels. This will be done to raise the awareness about iBorderCtrl system in different EU countries.

As for the website the following actions are envisaged:

| Action | Commentary |
|---|---|
| PILOTS tab needs to be added | |
| ALL necessary information should be included there | brief info about pilot sites, pilot duration, instructions how to join pilots, etc. |
| Instructions how to enrol should be included: <ul style="list-style-type: none"> - Step-by-step instruction explaining how to join the Pilots needs to be provided | Written instructions should be added to YouTube video so that everyone can choose automatic translation to the desired language |

| | |
|--|--|
| <ul style="list-style-type: none"> - Video tutorial for using User Application would be an asset - Many screenshots to be included - FAQ to be provided | |
|--|--|

Radio/press/social media: It is also envisaged to expand dissemination efforts to radio, press and social media channels (Twitter/LinkedIn/Facebook/etc.).

Project social media channels will be used to promote the pilots to the wider public, release short news and photos from the pilots. Both Twitter and LinkedIn project profiles will be used for these purposes. Furthermore, consortium members will promote iBorderCtrl pilots via their company/organisation social media channels including Facebook, Twitter and LinkedIn.

Consortium partners, especially end users including HNP, BSG, TRA and KEM will expand the above mentioned dissemination activities with promoting iBorderCtrl pilots in local media.

Project end users will seek possibilities to promote the project pilots in local media. This will focus on releasing information and encouraging volunteers through radio and local press. At the first step, each end user will identify relevant newspapers, magazines and radio channels, as well as internet traveller forums. Subsequently, regular notifications/information will be posted/released via the identified channels.

The following actions are proposed:

| Action | Commentary |
|---|--|
| Check possibilities of using any of the proposed means | Inform ITTI which channels can you use |
| Provide radio message text, press release note, | |
| Identify relevant local radio stations willing to play our announcement | |
| Identify local newspapers where info about pilots could be mentioned | |
| Provide info about pilot on your website | |
| Ask organizations that you are in contact with to share info about pilots at your border crossing | |
| Provide social media updates (tweets, posts, etc.) | Throughout pilot duration (every week) |

6 Conclusions

In conclusion, the iBorderCtrl reporting period spanning from M12 up to M24 has been rich in dissemination activities, which focused on delivering project related scientific papers at renowned events such as WCCI in Rio de Janeiro. In total, iBorderCtrl was presented at 10 different dissemination events in the period of interest. Moreover, the consortium put effort in clustering activities and participated in FLYSEC Info Day. Furthermore, the total number of 8 released publications in the reporting period is another evidence that the dissemination activities are performed well by the consortium. Considering the online presence of the project, the project is effectively represented via website, Twitter and LinkedIn. Taking into account the upcoming period of iBorderCtrl pilots, the dissemination and promotional activities conducted by the consortium will intensify and more materials will be produced. The results of pilots will be also a part of the next dissemination and communication plan and yearly communication report, both due at M36.

Appendix A – Project leaflet (version 2)



Figure 8 iBorderCtrl Flyer version 2 (page 1/3)

i BorderCtrl innovations

- **Introducing a Pre-Registration Phase:** Travellers -before arriving at the borders- register through their mobile phone, tablet or computer, submit their travel documents and participate in an interview by a virtual border agent.
- **Empowering border guards at Border Crossing:** Key technologies are provided to the border guards, both integrated to existing static installations as well as in a portable hardware unit.
- **Conducting a Risk Based Assessment:** Takes advantage of the checks outcomes and classifies travelers in terms of risk, supporting the decision-making of the border guard.
- **Introducing Analytics in the Border Control context:** Analysis of data to identify new patterns and knowledge in order to increase the accuracy at the individual crossing level.
- **Speeding up the border crossing** for valid and bona-fide travelers while highlighting those that must be further checked by agents.
- **Going beyond Biometrics:** Collects data onto biomarkers stemming from the virtual border agent interview, indicating the probability of deceit.
- **Cross-checking traveler's information from legacy systems and social media,** such as VIS, SIS II and Twitter providing the necessary interoperability interfaces.
- **Enhancing the User Experience through three Applications/Interfaces:** Traveler User Application, Border Guard User Application for the border checks and Border Manager User Application for the superiors responsible for resources management.

iBorderCtrl technologies



Traveller and Border Guard Applications



Consortium



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www.iborderctrl.eu

[@iBorderCtrl](https://twitter.com/iBorderCtrl)

[iBorderCtrl](https://www.linkedin.com/company/iborderctrl)

Scan here to visit the iBorderCtrl website:



Figure 9 iBorderCtrl Flyer version 2 (page 2/3)

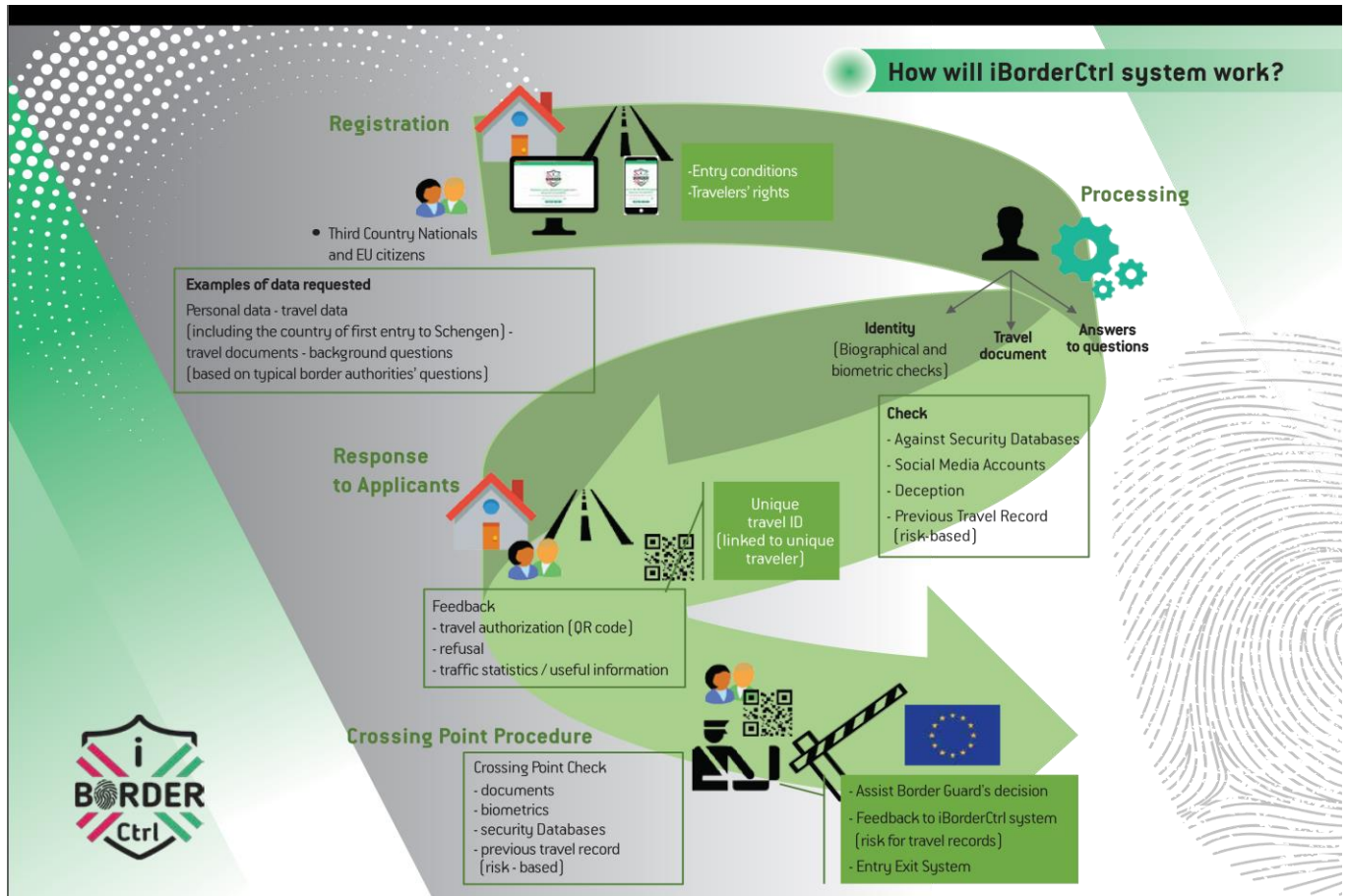


Figure 10 iBorderCtrl Flyer version 2 (page 3/3)

Appendix C – Poster (version 2)

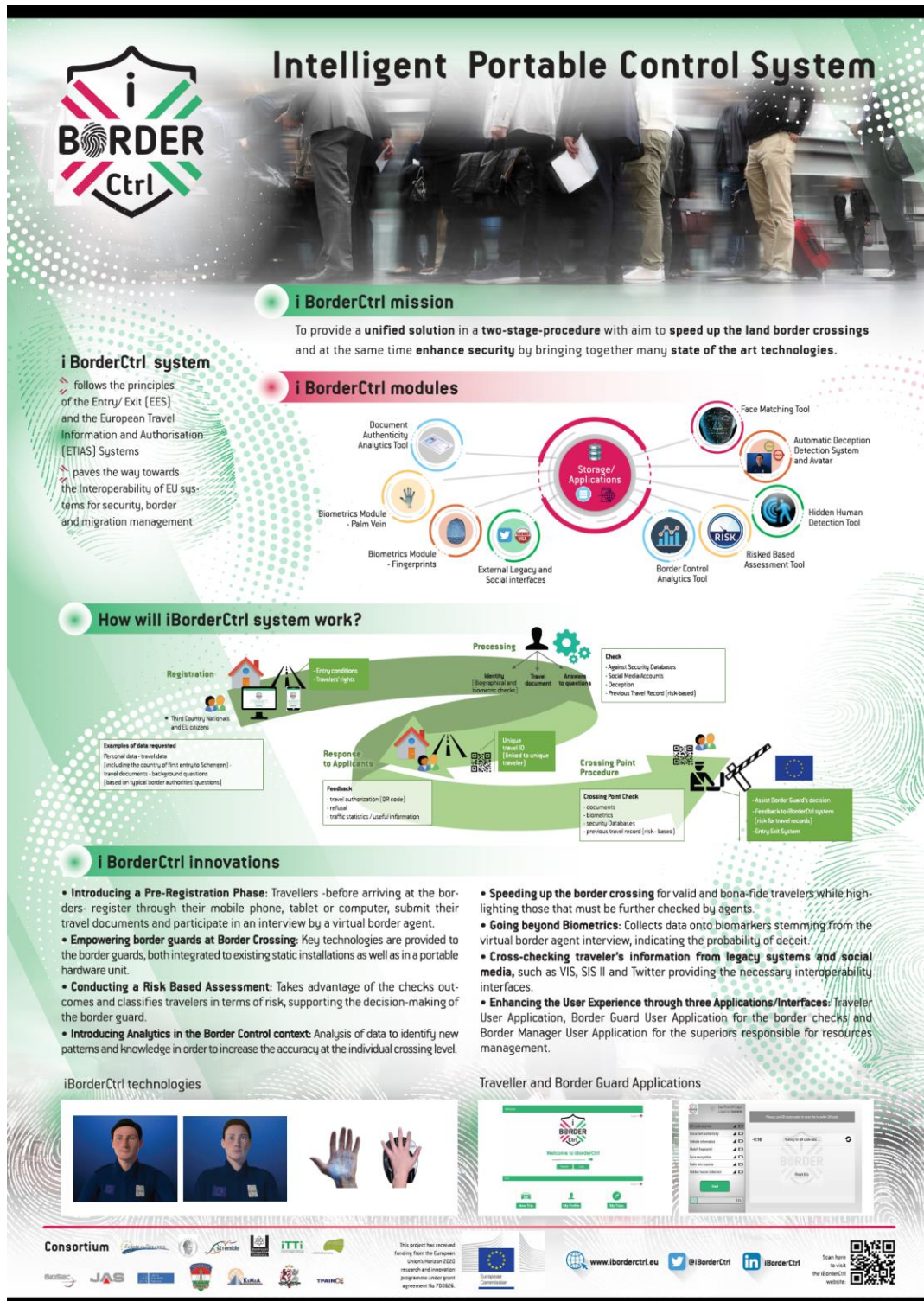


Figure 11 iBorderCtrl Poster version 2